

What is claimed is:

1 1. A biodegradable and bioactive composite material for surgical
2 osteosynthesis applications comprising: at least one resorbable polymeric matrix
3 component, at least one resorbable polymeric reinforcing element, and at least one
4 ceramic reinforcing element.

1 2. A method of manufacturing a biodegradable composite according to
2 claim 1, comprising the steps of:
3 a) selecting at least one first polymer for the matrix;
4 b) selecting at least one bioceramic for use as the ceramic reinforcing
5 element;
6 c) mixing said first polymer and said bioceramic together to form a
7 mixture;
8 d) selecting at least one second polymer in a fiber form;
9 e) placing said second polymer into a desired formation;
10 f) combining said mixture of step (c) and said formation of step (e) to
11 yield a second mixture; and
12 g) subjecting the second mixture of step (f) to heat or pressure.